PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER ACT	PION	C F POT/IDE A //16
25791.31.02		FUR FURTHER ACT	HON	See Form PCT/IPEA/416
International application No.		International filing date (c	lay/month/year)	Priority date (day/month/year)
PCT/US04/00631	PCT/US04/00631 12 January 2004 (12			
International Patent Clas	ssification (IPC)	or national classification and	I IPC	
IPC(8): E21B 17/02, 23	00 and US Cl.: 1	66/380, 382, 242.6; 228/194	4, 135; 285/21.2, 21.3, 2	88.3, 288.11, 289.5
Applicant				
SHELL OIL COMPAN	Y			
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.				
2. This REPO	RT consists of a	a total of 💆 sheets, inclu	ıding this cover sheet	
3. This report	is also accompa	nnied by ANNEXES, cor	mprising:	
a. 🔀 (sen	t to the applica	nt and to the Internation	al Bureau) a total of	sheets, as follows:
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).			ed by this Authority (see Rule 70.16	
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.			ority considers contain an amendment tion as filed, as indicated in item 4 of
b <i>(s</i>	ent to the Intern	ational Bureau only) a to	otal of (indicate type a	and number of electronic carrier(s))
inc	b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			thereto, in electronic form only, as
4. This report	contains indicat	tions relating to the follo	wing items:	
Box	Box No. I Basis of the report			
Box	No. II Pri	ority		
Box	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		elty, inventive step and industrial	
Box	No. IV La	ck of unity of invention	•	
Box	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box		rtain documents cited	*	11
Box	Box No. VII Certain defects in the international application			
Box No. VIII Certain observations on the international application		tion		
Date of submission of the demand		Date of completion	of this report	
04 August 2005 (04.08.2005)		07 E-1 2006 (07	02.2006)	
Name and mailing address of the IPEA/ US		07 February 2006 (07.	02.2006)	
Mail Stop PCT, Attn: IPEA/US		Authorized officer	on the	
Commissioner for Patents P.O. Box 1450		Hoang Dang	muto for	
Alexandria, Virg	inia 22313-1450			V
Facsimile No. (571) 273-3201 Form PCT/IPFA/409 (cover sheet) (April 2005)		Telephone No. 571-2	12-3000	

, INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/US04/00631

Bo	x No.	o. I Basis of the report	
1.	With	th regard to the language, this report is based on:	
	\boxtimes	the international application in the language in which it was filed.	
		a translation of the international application into <u>English</u> , which is the language of a translation furnish purposes of:	ed for the
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4(a))	
		international preliminary examination (under Rules 55.2(a) and/or 55.3(a))	
2.	to the annex	h regard to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" a exed to this report): the international application as originally filed/furnished the description: pages 1-27 as originally filed/furnished	
		pages* NONE received by this Authority on received by this Authority on	
		the claims: pages NONE as originally filed/furnished pages* NONE as amended (together with any statement) under Article 19 pages* NONE received by this Authority on	
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not be since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 7)	
		the description, pages	
		the claims, Nos	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
* I	fitem	m 4 applies, some or all of those sheets may be marked "superseded."	

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
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Box No. IV	Lack of unity of invention
1. In res	ponse to the invitation to restrict or pay additional fees the applicant has, within the applicable time limit:
	restricted the claims.
\boxtimes	paid additional fees.
	paid additional fees under protest, and, where applicable, the protest fee
	paid additional fees under protest but the applicable protest fee was not paid
	neither restricted the claims nor paid additional fees
	Authority found that the requirement of unity of invention is not complied with and chose, according to Rule not to invite the applicant to restrict or pay additional fees.
3. This Autho	rity considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
comp	lied with.
not co	omplied with for the following reasons:
This application concept under P	n contains the following inventions or groups of inventions which are not so linked as to form a single general inventive CT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.
Group I, claim(s	1) 1-3, 5-17, 19-27, 29-89, 102-141, 149-162 and 170-192, drawn to a method, a tubular liner or an apparatus.
Group II, claim(s) 90-93, drawn to a tubular assembly.
Group III, claim	(s) 94-101, drawn to a cold-weldable insert.
13.2, they lack to f Gorup I is the claims of Gorup special technical forming a metal	isted as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule the same or corresponding special technical features for the following reasons: The special technical feature of the claims or radially expanding and plastically deforming the coupled first and second tubes. The special technical feature of the II is the combination of a mechanical connection and a metallurgical connection between first and second tubes. The feature of the claims of Group III is the tapered tubular member fabricated from one or more materials capable of lurgical bond with at least one adjacent tubular member. Unity between Groups I-III is lacking because each Group tent special technical feature as explained above.
4. Consequent	ly, this report has been established in respect of the following parts of the international application:
all 1	parts
=	parts relating to claims Nos

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	rticle 35(2) with regard to novelty, inventive step or industrial supporting such statement	strial
1. Statement		
Novelty (N)	Claims Please See Continuation Sheet	YES
	Claims Please See Continuation Sheet	NO
Inventive Step (IS)	Claims Please See Continuation Sheet	YES
	Claims Please See Continuation Sheet	NO
Industrial Applicability (IA)	Claims Please See Continuation Sheet	YES
	Claims Please See Continuation Sheet	NO

2. Citations and Explanations (Rule 70.7)

Claims 52-54, 58-61, 102-117, 141, 149-182 and 188-192 lack novelty under PCT Article 33(2) as being anticipated by DANIEL (US 6,419,147) (see figures 1-6, column 3, lines 8-22; column 4, lines 11-25 and 50-67; column 5, lines 1-17; column 5, line 66 through column 6, line 11; and column 6, line 63 through column 7, line 3).

Claims 1-3, 5-17, 19-27, 29-51, 55-57, 62-101, 118-140 and 183-187 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the invention as claimed and wherein the insert comprises an inner core of a first material and an outer layer of a second material having a lower melting pint than the first material or wherein the insert (or the metallurgical connection) is a cold welded insert (or a cold welded connection) or wherein the metallurgical connection is formed during the radial expansion and plastic deformation of the first and second tubes.

Claims 1-3, 5-17, 19-27, 29-141, 149-162 and 170-192 meet the criteria set out in PCT Article 33(4), and thus having industrial applicability because the subject matter claimed can be made or used in industry.

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International application No. PCT/US04/00631

Supplemental Box
In case the space in any of the preceding boxes is not sufficient.
Continuation of:
i
V.1. Reasoned Statements: The opinion as to Novelty was positive (Yes)with respect to claims 1-3, 5-17, 19-27, 29-51, 55-57, 62-101, 118-140 and 183-187 The opinion as to Novelty was negative (No) with respect to claims 52-54, 58-61, 102-117, 141, 149-162, 170-182 and 188-192 The opinion as to Inventive Step was positive (Yes)with respect to claims 1-3, 5-17, 19-27, 29-51, 55-57, 62-101, 118-140 and 183-187 The opinion as to Inventive Step was negative(NO) with respect to claims 52-54, 58-61, 102-117, 141, 149-162, 170-182 and 188-192 The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-3, 5-17, 19-27, 29-141, 149-162 and 170-192 The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE